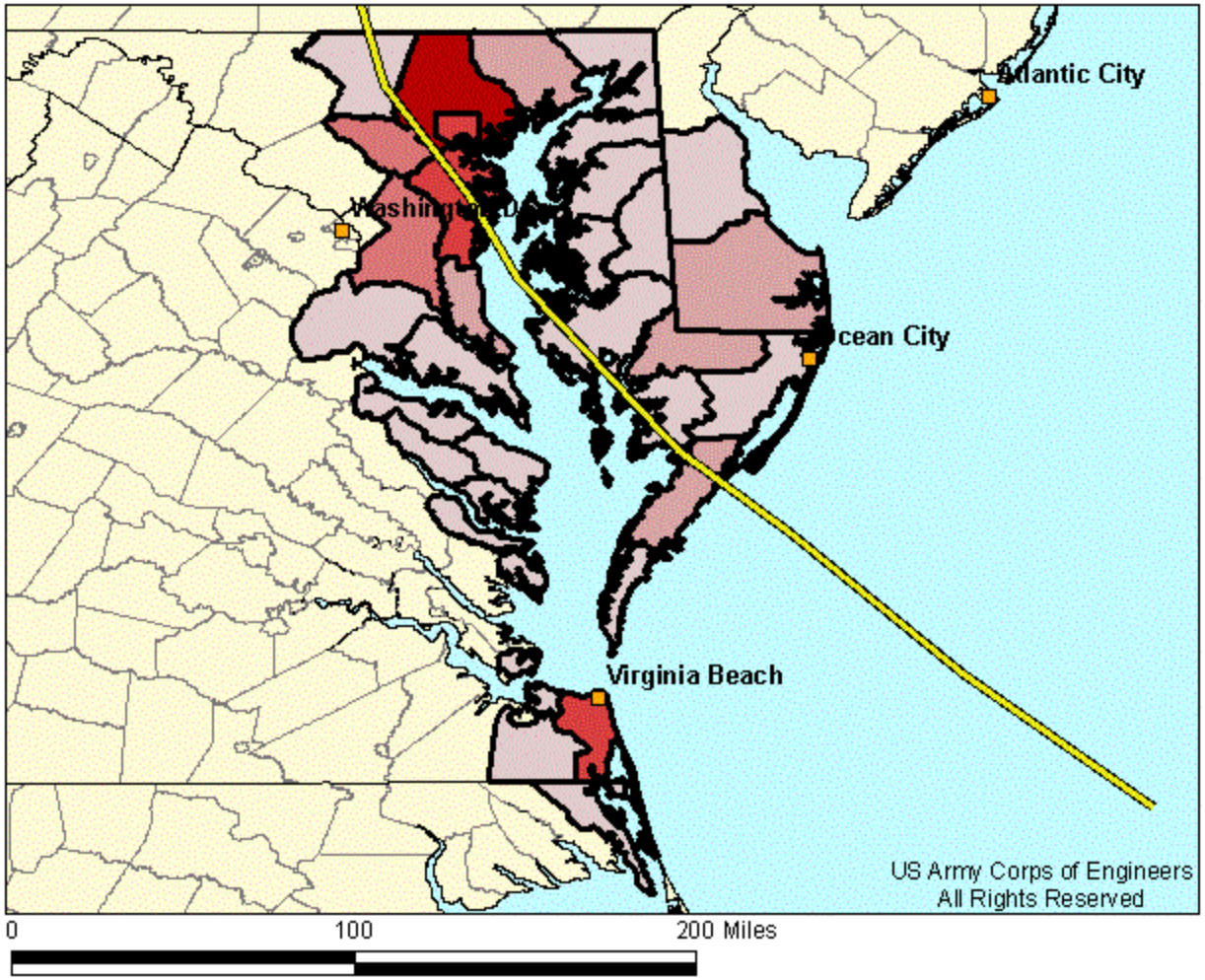
US Army Corps of Engineers

Hurricane MD#2 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Maryland - 4,314,000 Yards
Virginia - 787,000 Yards
Delaware - 241,000 Yards
North Carolina - 4,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (0900 EDT 05/16/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#2 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 05/16/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#2 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Delaware		Kent	24,000
		Sussex	217,000
Delaware	241,000		
Maryland		Anne Arundel	711,000
		Baltimore	1,121,000
		Baltimore City	936,000
		Calvert	108,000
		Caroline	35,000
		Carroll	32,000
		Cecil	< 1,000
		Charles	7,000
		Dorchester	95,000
		Harford	228,000
		Howard	284,000
		Kent	20,000
		Prince George's	264,000
		Queen Anne's	50,000
		Somerset	64,000
		St Mary's	97,000
		Talbot	54,000
		Wicomico	119,000
		Worcester	89,000
Maryland	4,314,000		
North Carolina		Currituck	4,000
North Carolina	4,000		
Virginia		Accomack	125,000
		Chesapeake city	5,000
		Hampton City	< 1,000

State	Yards per State	County	Yards per County
Virginia		Lancaster	13,000
(continued)		Mathews	12,000
		Middlesex	6,000
		Norfolk City	44,000
		Northampton	18,000
		Northumberland	19,000
		Richmond	< 1,000
		Virginia Beach city	543,000
		Westmoreland	2,000
Virginia	787,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane MD#2 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 05/16/2008

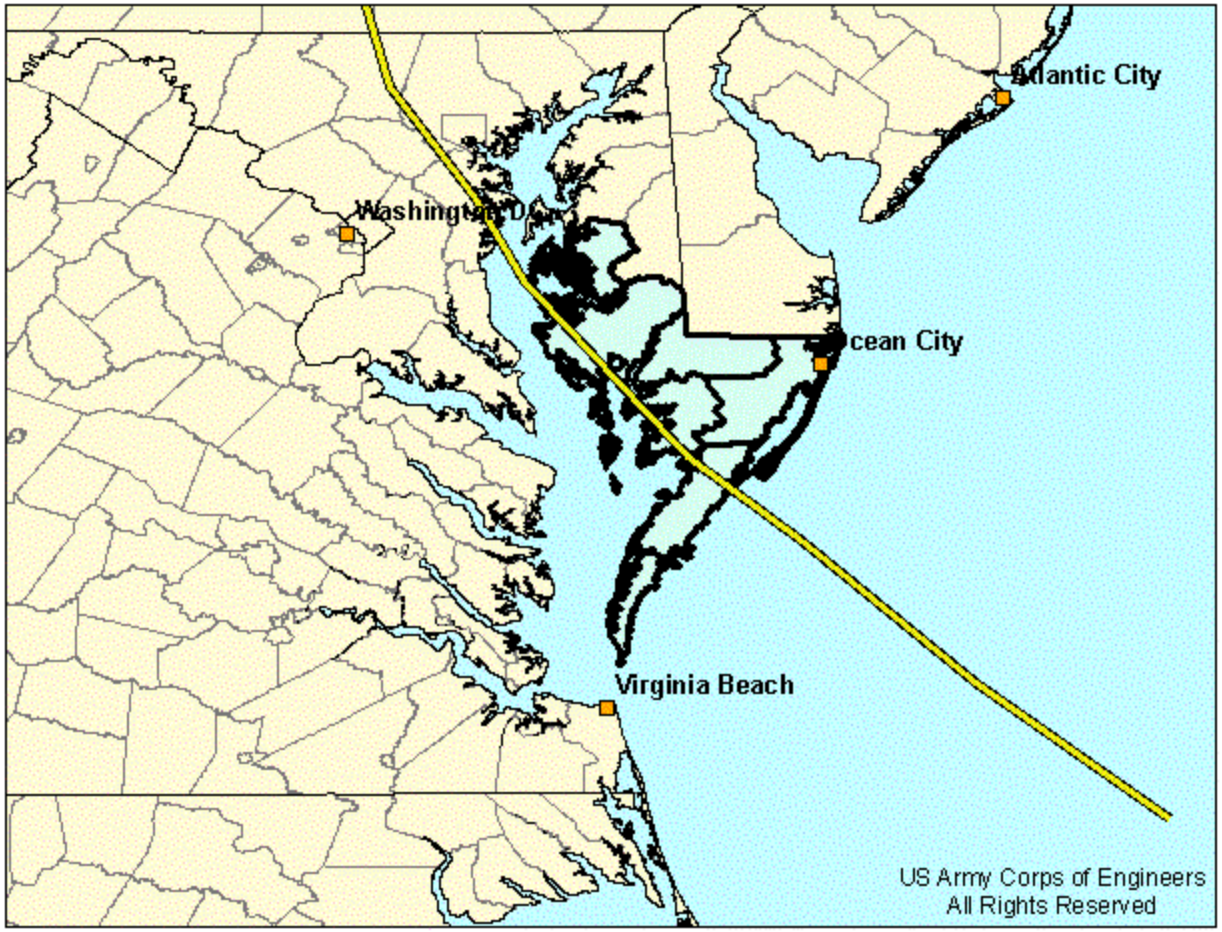
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#2 Commodities Model

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
MD – 2/4/7 Truckloads
VA – 1/2/4 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC ***(0900 EDT 05/16/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#2 Commodities Model	
Generated By: Siemsen, LRL 0930 EDT 05/16/2008	
Sources: HURREVAC LRL-DEBRIS	Page 3 of 12

US Army Corps of Engineers

Hurricane MD#2 Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Maryland		Dorchester	2
		Somerset	2
		Talbot	1
		Wicomico	1
		Worcester	1
Maryland	7		
Virginia		Accomack	3
		Northampton	1
Virginia	4		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#2 Commodities Model

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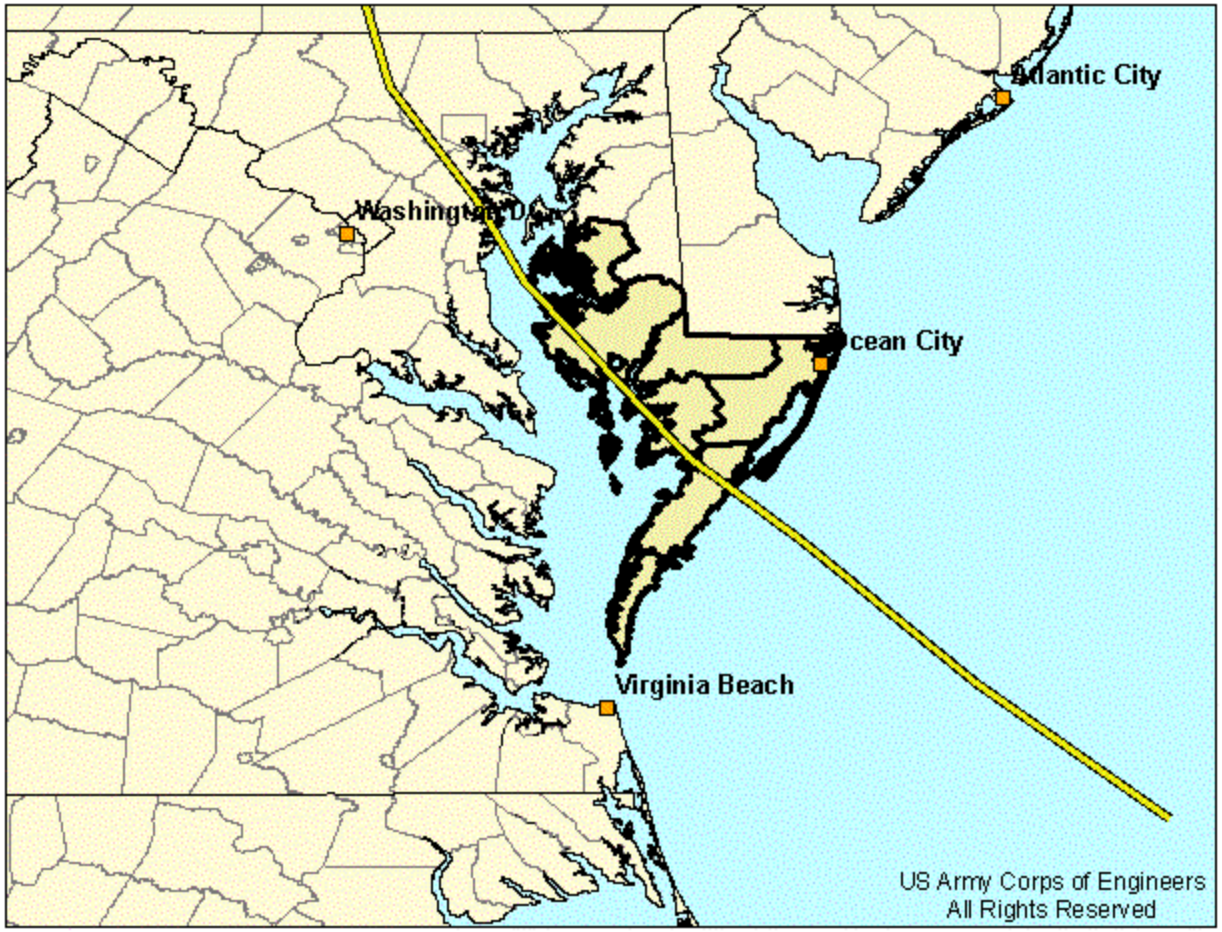
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#2 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Maryland - 600
Virginia - 500

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (0900 EDT 05/16/2008) forecast. Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#2 Roofing Model	
Generated By: Siemsen, LRL 0930 EDT 05/16/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane MD#2 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Maryland		Dorchester	300
		Somerset	300
		Talbot	< 100
		Wicomico	< 100
		Worcester	< 100
Maryland	600		
Virginia		Accomack	500
		Northampton	< 100
Virginia	500		

Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#2 Roofing Model

Generated By:
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Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#2 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

Post Landfall Temporary Housing Model Results

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (0900 EDT 05/16/2008) forecast. Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#2 Housing Model	
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Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane MD#2 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
		No Temporary Housing need expected	

Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#2 Housing Model

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Sources:
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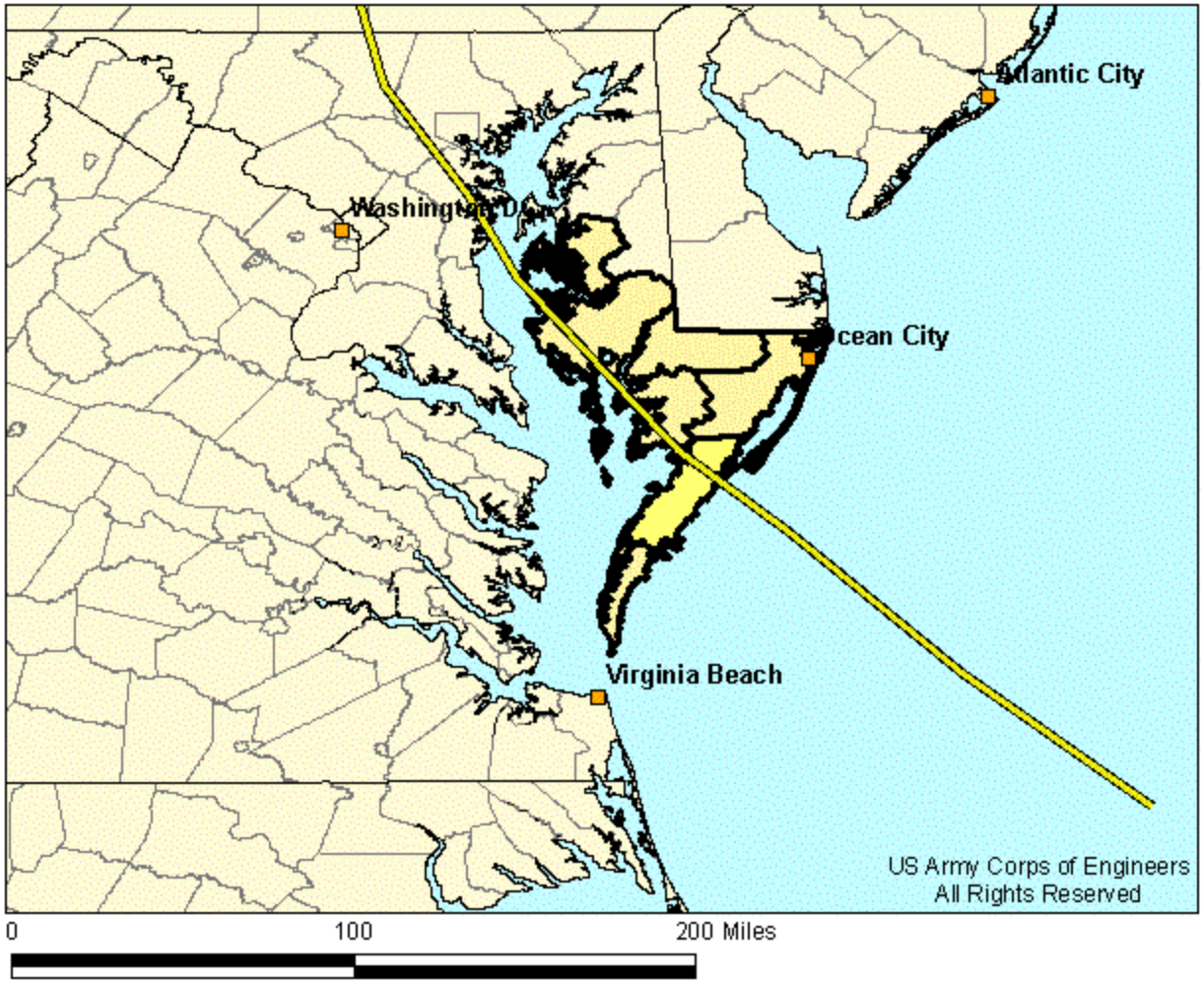
US Army Corps of Engineers

Hurricane MD#2 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Maryland - 54,000
Virginia - 37,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (0900 EDT 05/16/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#2 Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 9 of 12

US Army Corps of Engineers

Hurricane MD#2 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Maryland		Dorchester	20,000
		Somerset	22,000
		Talbot	2,000
		Wicomico	4,000
		Worcester	6,000
Maryland	54,000		
Virginia		Accomack	37,000
		Northampton	< 1,000
Virginia	37,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#2 Population Model

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Sources:
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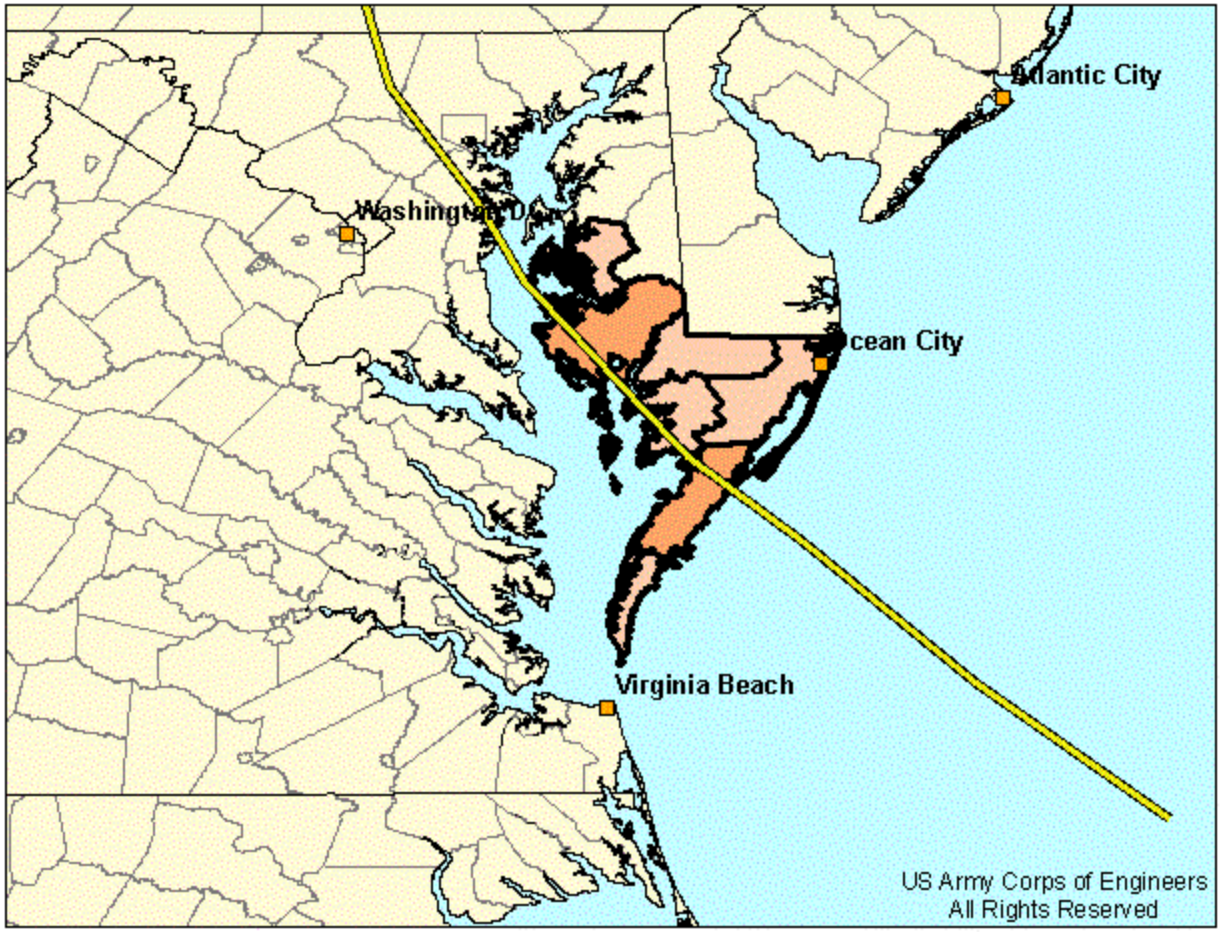
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#2 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Maryland - 22,000
Virginia - 15,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Chincoteague, VA.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall near Chincoteague, VA. These projections are based on information from the NHC (0900 EDT 05/16/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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Hurricane MD#2 Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 11 of 12

US Army Corps of Engineers

Hurricane MD#2 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Maryland		Dorchester	9,000
		Somerset	8,000
		Talbot	< 1,000
		Wicomico	2,000
		Worcester	3,000
Maryland	22,000		
Virginia		Accomack	15,000
		Northampton	< 1,000
Virginia	15,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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Hurricane MD#2 Households Model

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